# ACP88

Eight-Channel Compressor/Limiter/Gate

extreme audio

The ACP88 is an eight-channel dynamics processor designed to provide compression, limiting, and noise gating in a variety of applications; such as multitrack recording, live sound reinforcement, broadcast and permanent sound installations. Value for the dollar is unmatched. Quality is uncompromised. Thousands of these units are in use around the world. The best names in the business depend on this unit. We think you will too!

Each channel on the ACP88 provides crystal clear, musical compression and is equipped with full-featured controls including variable attack and release and switchable soft/hard knee. Also, an "Auto" mode on every channel takes the guesswork out of setting the compressor. The noise gates are excellent for cleaning up drums, vocals, and instruments. Gate feature set includes; threshold, variable attack & release times and gate range controls. The Gate boasts a Gate Key/Sidechain for precise frequency gating applications. In addition, each channel has a seven-segment LED meter that displays gain reduction, and an LED indicator for gate position (open/close) and compression threshold (above/below). A unique linking function makes it possible for any channel to be linked to the previous. This comprehensive bus can link two to eight channels together in any order as well as create various link groups. De-essing, ducking and other forms of spectral processing can be accomplished using the compressor Sidechain provided on every channel.

At the heart of the ACP88 is the much respected THAT 4301s VCA. This VCA has unsurpassed dynamic range, extremely low distortion charateristics and virtually no noise. Conclusion? There is nothing that can compare to the space/performance benefits of the ACP88 at any price.

All inputs and outputs are 1/4" TRS balanced or unbalanced, and each channel has a selectable +4dBu/-10dBV switch. The unit is housed in a two-rack-space, all-steel chassis and has a switchable power transformer for international use. With its superior sound quality and features, the ACP-88 is a workhorse-processor that truly affords Total Dynamics Control.

## ACP88 Basic Setup & Applications

- Use on your mixer's insert points
- Use after your mixer's main outputs, balanced
- Use between multitrack recorder inputs/outputs to mixer outputs/inputs, unbalanced
- Sidechain insertion of an equalizer, for de-essing, ducking, and frequency dependent gating
- Prevent tape saturation & distortion
- Control wide swings in mic & instrument levels
- Protect speakers and other system components
- Transfer between digital and analog formats
- Optimize valuable rack space and performan

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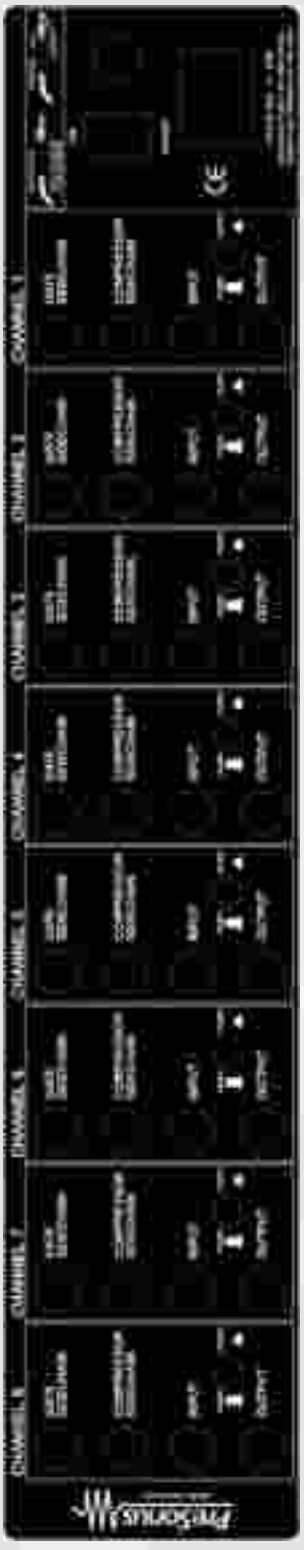

ACP88 Technicial Specifications

| | |
|---|---|
| Number of Channels | Eight |
| Dynamic Range | >115dB |
| Signal to Noise Ratio | >95dB |
| Headroom | +24dBu, Unbalanced, +18dBu, Balanced |
| Frequency Response | 10Hz to 50Hz |
| Crosstalk | >82dB @ 10kHz |
| Compression Threshold Range | -40dBu to +20dBu |
| Compression Ratio | 1:1 to 20:1 |
| Compressor Attack Time | 0.02ms to 200ms |
| Compressor Release Time | 0.05sec to 500ms |
| Auto Attack and Release | Program Dependent |
| Link | Links any combination of channels 1-8 via proprietary power summing buss |
| Link Meter | LED audio sensitive |
| Gate Threshold Range | -70dBu to +20dBu |
| Gate Attack Time | 0.01ms to 100ms |
| Gate Release Time | 0.02ms to 2sec |
| Gate Attenuation Range | -15dB or -60dB |
| Input Impedance | 10k Ohms |
| Output Impedance | 51 Ohms |
| THD + Noise | <0.02% |
| Output Gain | -20dB to +20dB |
| Compression Curve Types | Soft and Hard Knee LED |
| Compression Metering | Above/Below Threshold LED and Gain Reduction (seven segment LED) |
| Gate Metering | Open and Closed LED |
| Sidechain Output Impedance | 51 Ohms |
| Sidechain Input Impedance | 10k Ohms |
| Gate Input Impedance | 10k Ohms |
| Internal Operation Level | +4dBu = 0dB |
| Input Range | +4dBu or -10dBv (switchable) |
| Input Connectors | 1/4" Tip Ring Sleeve, Balanced or Unbalanced |
| Output Connectors | 1/4" Tip Ring Sleeve, Balanced or Unbalanced |
| Sidechain Connector | 1/4", Tip Ring Sleeve |
| Gate Sidechain Connector | 1/4", Tip Ring Sleeve |
| Power Supply | Internal, Linear Supply |
| Power Requirements | 100VAC to 120VAC or 200VAC to 240VAC |
| Main Connection | IEC Receptacle |
| Size | 2U Rack 19" W X 3.5" H X 7" D |
| Weight | 12 lbs. |

ACP88 Architectural & Engineering Specifications

The compressor/limiter/gate shall have eight identical channels, each with an audio frequency response of 10Hz to 50kHz, an electronically floating balanced input impedance of not less than 10k Ohms, balanced and a maximum input level of not less than +24dBu unbalanced and +18dBu balanced, into a minimum load impedance of 51 Ohms and 1/4" TRS type connectors. The unit shall also have a compression sidechain with an input impedance of not less than 10k Ohms and an output impedance of not less than 51Ohms. Sidechain input/output jack shall be a 1/4" TRS jack. Total Harmonic Distortion plus Noise shall be less than 0.02%. The unit shall have an Equivalent Input Noise level of not more than -96dBu unweighted, and a dynamic range of not less than 115dB. Ouput gain adjustment shall be variable from -20 to +20dB. The compression threshold range shall be variable from -40 to +20dB and the compression ratio shall be variable from 1:1 to infinity:1. The compressor attack and release times shall be selectable for either program dependent or manually adjustable, scalable operation. The compression ratio characteristic shall be selectable for either the hard or soft knee curve type with a maximum compression of no less than 40dB. The noise gate shall have a threshold of - infinity to no less than +20dBu. The gate attack time shall be variable from 10 microseconds to no more than 100 milliseconds. The gate release time shall be variable from .02 to no more than 2 seconds. The gate range shall be preset for either -60dB or -20dB reduction. All input, output and sidechain signals shall be via the rear panel. The stereo link shall be of the true RMS summing type with the previous unlinked channel as the master when linked. The unit shall have the following front panel switches for each channel: Soft/Hard knee, auto, link, range and bypass. Each channel shall have the following identical controls: Compressor threshold, compressor ratio, compressor attack, compressor release, gate threshold, gate attack, gate release, and channel gain make up; and the following identical metering and indicator LEDs for each channel: Below/Above compressor threshold, compression gain reduction, gate open/close, and link engaged/disengaged. There shall be a rear panel switch for each channel to select nominal input and output operation levels at 10dBV or +4dBu. The power requirements shall be 100-120-VAC 50/60Hz or 200-240VAC, 50/60/Hz, 20W via a detachable IEC type AC cable. The size of the unit shall be19" X 3.5" X 7" and a weight of 10lbs. (4.54kg). The 2U high, full rack width eight channel compressor/gate shall be a PreSonus ACP-88.